



Patents

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Fred S. Cannon et al.

Appln. No.: **10/085,469**

Group Art Unit: 1724

Filed: **February 28, 2002**

Examiner: Cintins Ivars

Title: **METHOD OF HEAT TREATING
ACTIVATED CARBON TO ENHANCE
ADSORPTION OF TASTE AND ODOR
COMPOUNDS AND TOTAL ORGANIC
CARBONS FROM WATER**

Atty Docket No. 1665-1-1
Customer ID 25207

TRANSMITTAL LETTER

BOX IDS

Honorable Commissioner for Patents
Washington, D.C. 20231

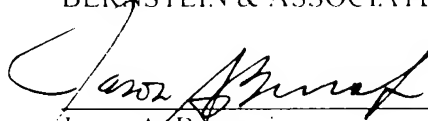
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Enclosed for filing in the above case are the following documents:

- Form PTO/SB/08A
- Supplemental Information Disclosure Statement
- Copy of each cited reference
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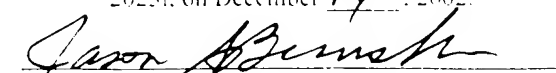
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Respectfully submitted,
BERNSTEIN & ASSOCIATES, P.C.


Jason A. Bernstein
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Group Art Unit: 1724

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Atty Docket No. 1665-1-14
Customer ID 25207

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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Sir:

The citation of information on the attached Form PTO SB 08A made pursuant to 37 CFR 1.56. A copy of each cited item is enclosed.

The citation of this information does not constitute either an admission of priority or a waiver of any right applicant may have under applicable statutes, Rules of Practice in patent cases, or otherwise.

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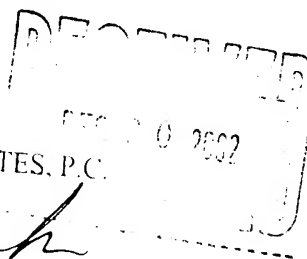
Respectfully submitted,
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/085,469		
		Filing Date	February 28, 2002		
		First Named Inventor	Fred S. Cannon et al.		
		Art Unit	1724		
		Examiner Name	Cintins Ivars		
Sheet	1	of	4	Attorney Docket Number	1665-1-1

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No.	Document Number (Number, Kind Code, Year)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A	US- 5,154,750	05/15/79	Moore et al.	RECEIVED DEC 27 2002 TC 1700
	B	US- 4,150,045	04/17/79	Sinha	
	C	US- 6,064,560	05/16/00	Hirahara et al.	
		US-			
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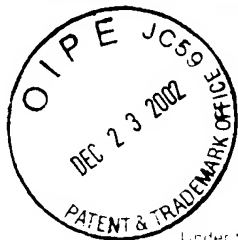
FOREIGN PATENT DOCUMENTS					
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Substitute for form 1449B-PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/085,469
Sheet	2	Filing Date	February 28, 2002
	of	First Named Inventor	Fred S. Cannon et al.
	4	Group Art Unit	1724
		Examiner Name	Cintins Ivars
		Attorney Docket Number	1665-1-1

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials ²	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
/ D		Herzing et al., "Activated Carbon Adsorption of the Odorous Compounds 2-Methylisoborneol and Geosmin," Journal AWWA, April 1977, pp. 223-228.	
/ E		Lalezary-Craig et al., "Optimizing the Removal of Geosmin and 2-Methylisoborneol by Powdered Activated Carbon," Research and Technology.	
/ F		Chen et al., "Evaluation of Granular Activated Carbons for Removal of Methylisoborneol to Below Odor Threshold Concentration in Drinking Water," Wat. Res. Vol. 31, No. 5, pp. 1155-1161, 1997, Elsevier Science Ltd.	
/ G		Ellis et al., "Removal of Geosmin and Methylisoborneol from Drinking Water by Adsorption on Ultrastable Zeolite-Y," Wat. Res., Vol. 27, No. 4, pp. 535-539, 1993, Pergamon Press Ltd.	
/ H		Terauchi et al., "Studies on a Biological Filter for Musty Odor Removal in Drinking Water Treatment Processes," Wat. Sci. Tech., Vol. 31, No. 11, pp. 229-235, 1995, IAWQ.	
/ I		Lalezary et al., "Evaluating Activated Carbons for Removing Low Concentrations of Taste- and Odor-Producing Organics," Research and Technology	
/ J		Coughlin et al., "Role of Surface Acidity in the Adsorption of Organic Pollutants on the Surface of Carbon," Environmental Science and Technology, Jan. 1958, pp. 291-297.	
/ K		Randtke et al., "Evaluating GAC Adsorptive Capacity," Journal AWWA, August 1983, pp. 406-413.	

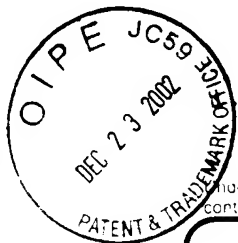
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		Application Number	10/085,469
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	February 28, 2002
		First Named Inventor	Fred S. Cannon et al.
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		Examiner Name	Cintins Ivars
		Attorney Docket Number	1665-1-1
Sheet	3	of	4

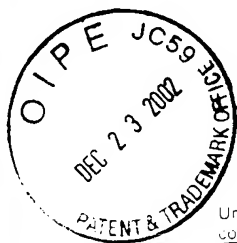
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. 1	Include name of the author (in CAPITAL LETTERS); title of the article (when appropriate); title of the item (book, magazine, journal, serial, symposium, catalog, etc.); date, page(s), volume-issue number(s), publisher, city and/or country where published.	T-
L		McCreary et al., "Granular Activated Carbon in Water Treatment," Journal AWWA, August 1977, pp. 437-444.	
M		Levi et al., "Offensive Tastes and Odors Occurring After Chlorine Addition in Water Treatment Processes," Wat. Sci. Tech., Vol. 20, No. 8/9, pp. 269-274, 1998, IAWPRC.	
N		Chudyk et al., "Activated Carbon Versus Resin Adsorption of 2-Methylisoborneol and Chloroform," Journal AWWA, Sept. 1979, pp. 529-538.	
O		Gillogly et al., "Kinetic and Equilibrium Studies of 14C-MIB Adsorption on PAC in Natural Water," University of Illinois at Urbana-Champaign, Dept. of Civil Engineering, pp. 627-645.	
P		Vik et al., "Pilot Scale Studies of Geosmin and 2-Methylisoborneol Removal," Wat. Sci. Tech. Vol. 20, No. 8/9, pp. 229-236, 1988, IAWPRC.	
Q		Huang et al., "Adsorption Kinetics of MIB and Geosmin," April 1996, pp. 116-128.	
R		Ando et al., "Removal of Musty-Odorless Compounds in Water and Retained in Algal Cells Through Water Purification Process," Wat. Sci. Tech., Vol. 25, No. 2, pp. 299-306, 1992, IAWPRC.	
S		McGuire et al., "Overview of Technology for Controlling Off-Flavors in Drinking Water," Wat. Sci. Tech., Vol. 20, No. 8/9, pp. 215-228, 1998 IAWPRC.	

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Attorney Docket Number	1665-1-1		
Sheet	4	of	4

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	IT	Burlingame et al., "A Case Study of Geosmin in Philadelphia's Water."	

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